

4th Technical Meeting on Divertor Concepts

Monday, 7 November 2022 - Thursday, 10 November 2022

IAEA Headquarters

Topics

Divertor and Confinement

Keywords: H-mode; divertor volume impact on confinement; constraints governed by core performance for ITER-like and advanced geometries

Radiative Power Exhaust

Keywords: control and optimization of radiative layers and radiative divertors for ITER-like and advanced geometries

Scrape-off Layer and Divertor Physics

Keywords: experiments and modelling for ITER-like and advanced geometries; main chamber interaction

Steady State Operation and Transient Heat Loads

Keywords: power decay length; ELMs and their mitigation for ITER-like and advanced geometries

Plasma Facing Component Materials and Heat Exhaust for Steady State Operation

Keywords: armour materials; target geometry; water/helium cooling design; cooling channel arrangement; heat sink activation; thermal conductivity and contact ageing

Divertors for DEMO and Next-Step Facilities

Keywords: safe operation; control diagnostics; protection from neutron flux; component lifetime; cassette design for remote maintenance

Poster

Modelling